Electric Vehicle Charging Infrastructure
Terra 53 CJ multi-standard DC fast charging station

The Terra 53 CJ multi-standard DC charger is a configurable dual-connector 50 kW fast charging station. Designed to meet the needs of the "charge and go" driver, the Terra 53 CJ supports all current and next generation electric vehicles with the latest CHAdeMO and CCS standards.

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The Terra 53 multi-standard DC charging station combines industry standardization with fast charging technology. Its multi-protocol design allows for easy tailoring to support CCS (SAE Combo) and CHAdeMO 1.0 and serve the most electric vehicle drivers, quickly and reliably.

All ABB chargers come with internet based Connected services to allow customers to easily connect their chargers to different software systems such as back-offices, payment platforms or smart grid energy systems. This allows for remote assistance, tailored diagnostic trouble shooting and repair, and remote updates and upgrades. This ensures a reliable, secure, cost efficient and future proof connectivity solution, based on open industry interfaces.

Main features
- Dual outlet, 50kW DC fast charging station
  - 30 to 80% in 15 minutes
  - CCS and CHAdeMO compliant
  - Continuous output for hours, even at high temperatures
- Future proof connection via open industry standards
  - Flexible interfacing with added value systems
  - Remote uptime monitoring and assistance
  - Remote updates and upgrades
- Easy to use
  - 8" daylight readable touch screen display
  - Graphic visualization of charging progress
  - RFID authorization
- EMC certified for safe use in industrial and residential areas
- Aesthetic design and rugged all-weather steel housing
- Low operational noise

Applications
- Retail shopping and commercial centers
- Highway travel stops and convenience stations
- High turnover and urban parking
- Car dealerships
- College and private campuses
- Commercial fleet operators
- EV infrastructure and service providers

Key optional features
- PIN code authorization
- Credit card payment terminal
- Input power limiting software to avoid expensive grid upgrades
- Web module management software
  - Statistics module with data per charger
  - Fleet access management module
- Integration with back-offices, payment platforms and smart grid energy systems
- Charger status information for car navigation purposes
- Wide temperature range: -35°C to +50°C
- Customized branding options
- Extended cable length to allow placement flexibility

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1 / L-501 VEHICLE CHARGING STATION
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Advantages of connected charging
Flexible interfacing with customer's added value systems

Optimal insight in charger operation

Maximize charger uptime with fast and reliable service

Optimize user experience

All Terra chargers are connected to ABB's Network Operating Center for monitoring, maintenance, and troubleshooting. ABB offers multiple Connected Services to site owners/operators:
- Web module management software for entry-level operations and analytics.
- Third party OCPP and custom APIs can be developed for more feature rich billing, analytics and diagnostics

ABB Driver Care
Scan the QR code to view a video demonstrating the value of direct access to telematics and world class service:

Technical specifications

System	Multi-standard DC charging station
Environment	Indoor / outdoor
Operating temperature	-35 °C to +50 °C (de-rating characteristic applies)
Storage temperature	-40 °C to +70 °C
Compliance and safety	c UL us IEC 61000 = Class B certified
Input	
AC power connection	3P + PE
Input voltage range	480 V_{AC} +/-10% (60 Hz)
Max. rated input current & power	75A, 60 kVA Power limiting options available
Power factor (full load)	> 0.96
Efficiency	94% at nominal output power
DC output	
Maximum output power	50 kW
Output voltage range	200 – 500 V_{DC} (Combo-1) 50 – 500 V_{DC} (CHAdeMO)
Maximum output current	125 A_{DC} (Combo-1) 120 A_{DC} (CHAdeMO)
General	
DC connection standard	EN61851-23 / DIN 70121 Combo-1 and CHAdeMO 1.0
DC cable length	12 ft (optional: 20 ft)
DC plug type	Combo-1 / CHAdeMO
RFID system	ISO/IEC14443A/B, ISO/IEC15693, FeliCa™ 1, NFC reader mode
Network connection	GSM modem (2G/3G) 10/100 Base-T Ethernet
Protection	Type 3R
Dimensions (D x W x H)	30" x 21" x 75" 760 mm x 525 mm x 1900 mm
Weight	775 lbs / 350 kg
Shipping dimensions (D x W x H)	48" x 32" x 85" 1200 mm x 800 mm x 2150 mm
Shipping weight	830 lbs / 375 kg

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APPROVED by the Town of Cary
Development Review Committee

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HAGERSMITH DESIGN PA
ARCHITECTURE
LANDSCAPE ARCHITECTURE
PLANNING
INTERIOR DESIGN

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Consultants

Seals

Client

ABB

Project

MINOR ALTERATION
ABB CAR CHARGING STATION REVISIONS
305 GREGSON STREET
CARY, NC

19-DP-9994
SP-
HTE #:
Approved by the Town of Cary
Development Review Committee

Planner: _____ Date: _____

Drawing Title

SITE DETAILS

Revisions

Number	Description	Date
1	FIRST COMMENT RESPONSE	7/1/19

Drawn By BTK
Checked By JSL
Date Issued 6/12/2019

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